



CERTIFICATE OF ANALYSIS

Client:	Steve McCulloch	Work Order Number:	375565
Company:	RDSB - S. Geiger Public School	PO #:	
Address:	69 Young St. Sudbury, ON, P3E 3G5	Regulation:	O.Reg. 243/07
Phone/Fax:	(705) 674-3171 / (705) 761-2442	Project #:	
Email:	mcculls@rainbowschools.ca	DWS #:	500045644
		Sampled By:	Steve McCulloch
Date Order Received:	6/20/2019	Analysis Started:	6/27/2019
Arrival Temperature:	13 °C	Analysis Completed:	6/28/2019

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
10 STANDING (S)	1449995	Water	Plumbing		6/20/2019	6:12 AM
10 FLUSHED (F)	1449996	Water	Plumbing		6/20/2019	6:47 AM
11A S	1449997	Water	Plumbing		6/20/2019	6:13 AM
11A F	1449998	Water	Plumbing		6/20/2019	6:48 AM
11B S	1449999	Water	Plumbing		6/20/2019	6:14 AM
11B F	1450000	Water	Plumbing		6/20/2019	6:49 AM
12B S	1450001	Water	Plumbing		6/20/2019	6:15 AM
12B F	1450002	Water	Plumbing		6/20/2019	6:50 AM
12A STANDING (S)	1450003	Water	Plumbing		6/20/2019	6:16 AM
12A FLUSHED (F)	1450004	Water	Plumbing		6/20/2019	6:51 AM
B S	1450005	Water	Plumbing		6/20/2019	6:10 AM
B F	1450006	Water	Plumbing		6/20/2019	6:45 AM
22B S	1450007	Water	Plumbing		6/20/2019	6:17 AM
22B F	1450008	Water	Plumbing		6/20/2019	6:52 AM
16A STANDING (S)	1450009	Water	Plumbing		6/20/2019	6:20 AM
16A FLUSHED (F)	1450010	Water	Plumbing		6/20/2019	7:05 AM



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Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
16B S	1450011	Water	Plumbing		6/20/2019	6:21 AM
16B F	1450012	Water	Plumbing		6/20/2019	7:06 AM
16C S	1450013	Water	Plumbing		6/20/2019	6:22 AM
16C F	1450014	Water	Plumbing	SAMPLE CONTAINED RESULT EXCEEDENCES.	6/20/2019	7:07 AM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
ICPMS Reg. Water (A13)	Garson	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A

REPORT COMMENTS

Lead exceedance reported for sample 1450014. 06/28/19 JC

This report has been approved by:

Mark Charbonneau, Ph.D.
Laboratory Director



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WORK ORDER RESULTS

Sample Description	10 STANDING (S)		10 FLUSHED (F)		11A S		11A F			
Lab ID	1449995		1449996		1449997		1449998			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	<0.1	0.1	0.2	0.1	<0.1	0.1	0.2	0.1	ug/L	10
Sample Description	11B S		11B F		12B S		12B F			
Lab ID	1449999		1450000		1450001		1450002			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	<0.1	0.1	0.2	0.1	0.1	0.1	0.5	0.1	ug/L	10
Sample Description	12A STANDING (S)		12A FLUSHED (F)		B S		B F			
Lab ID	1450003		1450004		1450005		1450006			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.1	0.1	1.4 [1.5]	0.1	0.2	0.1	0.8	0.1	ug/L	10
Sample Description	22B S		22B F		16A STANDING (S)		16A FLUSHED (F)			
Lab ID	1450007		1450008		1450009		1450010			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.1	0.1	0.5	0.1	1.1	0.1	4.8	0.1	ug/L	10
Sample Description	16B S		16B F		16C S		16C F			
Lab ID	1450011		1450012		1450013		1450014			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.9	0.1	5.7	0.1	1.1	0.1	18.7 [18.5]	0.1	ug/L	10



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LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

MDL: Method detection limit or minimum reporting limit.

[]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.

Exceedences: HIGHLIGHTED CELLS INDICATE THAT THE RESULT EXCEEDS A REGULATORY LIMIT. CALCULATED UNCERTAINTY ESTIMATIONS ARE NOT APPLIED FOR DETERMINING SAMPLE EXCEEDANCES.

Benzo(b)fluoranthene: Results for benzo(b)fluoranthene may include contributions from benzo(j)fluoranthene.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result.



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QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS.
QAQC details include only values where sufficient sample data allowed measurement.

Metals

Method Blank: LRB-6 (Blank- µg/L) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	1	ug/L	0	<1	1	20190628.A13.1B
Lead	1	ug/L	0	<1	1	20190628.A13.1C

Positive Control: LFB-7 (N 100 µg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	80	88.3	120	20190628.A13.1B
Lead	N/A	%	80	88.9	120	20190628.A13.1C

Reference Sample: CRM-12 (EP-L-3) (12)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	1	ug/L	3.65	3.72	4.35	20190628.A13.1B
Lead	1	ug/L	3.65	3.74	4.35	20190628.A13.1C

Sample Replicate: % RPD (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	0	1.1	20	20190628.A13.1C
Lead	N/A	%	0	6.9	20	20190628.A13.1B

Sample Spike: LFMS-9 (N 100 µg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	% Rec	70	88.8	130	20190628.A13.1B
Lead	N/A	% Rec	70	92.2	130	20190628.A13.1C



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THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
10 FLUSHED (F)	1449996	ICPMS Reg. Water (A13)	20190628.A13.1B	20190627.A52B
10 STANDING (S)	1449995	ICPMS Reg. Water (A13)	20190628.A13.1B	20190627.A52B
11A F	1449998	ICPMS Reg. Water (A13)	20190628.A13.1B	20190627.A52B
11A S	1449997	ICPMS Reg. Water (A13)	20190628.A13.1B	20190627.A52B
11B F	1450000	ICPMS Reg. Water (A13)	20190628.A13.1B	20190627.A52B
11B S	1449999	ICPMS Reg. Water (A13)	20190628.A13.1B	20190627.A52B
12A FLUSHED (F)	1450004	ICPMS Reg. Water (A13)	20190628.A13.1B	20190627.A52B
12A FLUSHED (F)	1450004r	ICPMS Reg. Water (A13)	20190628.A13.1B	20190627.A52B
12A STANDING (S)	1450003	ICPMS Reg. Water (A13)	20190628.A13.1B	20190627.A52B
12B F	1450002	ICPMS Reg. Water (A13)	20190628.A13.1B	20190627.A52B
12B S	1450001	ICPMS Reg. Water (A13)	20190628.A13.1B	20190627.A52B
16A FLUSHED (F)	1450010	ICPMS Reg. Water (A13)	20190628.A13.1C	20190627.A52C
16A STANDING (S)	1450009	ICPMS Reg. Water (A13)	20190628.A13.1C	20190627.A52C
16B F	1450012	ICPMS Reg. Water (A13)	20190628.A13.1C	20190627.A52C
16B S	1450011	ICPMS Reg. Water (A13)	20190628.A13.1C	20190627.A52C
16C F	1450014	ICPMS Reg. Water (A13)	20190628.A13.1C	20190627.A52C
16C F	1450014r	ICPMS Reg. Water (A13)	20190628.A13.1C	20190627.A52C
16C S	1450013	ICPMS Reg. Water (A13)	20190628.A13.1C	20190627.A52C
22B F	1450008	ICPMS Reg. Water (A13)	20190628.A13.1C	20190627.A52C
22B S	1450007	ICPMS Reg. Water (A13)	20190628.A13.1C	20190627.A52C
B F	1450006	ICPMS Reg. Water (A13)	20190628.A13.1C	20190627.A52C
B S	1450005	ICPMS Reg. Water (A13)	20190628.A13.1C	20190627.A52C